

AMENDMENTS TO THE SPECIFICATION:

Please insert the following heading on page 1, above line 2: --FIELD OF THE INVENTION--

Please insert the following heading on page 1, above line 3 : --BACKGROUND OF THE INVENTION--

Please amend the paragraph beginning on page 3, line 17, as follows:

~~The object of the present invention is therefore~~ Accordingly, it is desirable to manufacture high-quality measuring probes without using gluing or casting methods, if possible. ~~Another object is~~ Further, it is desirable to provide the simplest possible method for manufacturing high-quality probes that is suitable for automation. ~~Another object of the present invention is~~ Yet further, it is desirable to create a method for manufacturing a measuring probe which makes it possible to open the measuring probe again after being manufactured.

Please delete the paragraph beginning on page 3, line 22, as follows:

~~These objects are achieved according to the present invention by a method for manufacturing a measuring probe having the features of Patent Claim 1.~~

Please insert the following heading on page 3, above line 24 : -- SUMMARY OF THE INVENTION--

Please amend the paragraph beginning on page 3, line 24, as follows:

According to one embodiment of the present invention, a method for manufacturing a measuring probe, in particular a pH measuring probe having a housing and two electrodes, by the following method steps is provided:

Please amend the paragraph beginning on page 4, line 17, as follows:

The idea on which the present invention is based is to run the silver wire for the inner electrode directly, i.e., without additional soldering and without providing an additional line, from the interior of the glass tube to the exterior and to secure it there. The silver wire is then prepared to form the outside contact of the measuring electrode. The particular advantage of the method according to this embodiment of the present invention is that it is no longer necessary to perform complex soldering of a line introduced from the outside or to twist the silver wire. Each electrode chamber is advantageously manufactured separately. Furthermore, the method according to this embodiment of the present invention makes a very high quality contact available which requires fewer processing steps than known manufacturing methods.

Please insert the following heading on page 5, above line 4: --BRIEF DESCRIPTION OF THE DRAWINGS--

Please insert the following heading on page 5, above line 12: -- DETAILED DESCRIPTION OF VARIOUS EMBODIMENTS--

Please amend the paragraph beginning on page 7, line 21, as follows:

3. On its end opposite recess 26, receptacle device 23 also has a groove 44 running on the outside surface of receptacle device 23. In this area of receptacle device 23, a transverse through bore ~~[[35]]~~ 45 is also provided. To attach silver wire 7, it is pushed with its area 7' through transverse through bore ~~[[35]]~~ 45 and pulled tightly, so that wire 7' is firmly in contact with groove 44.

Please amend the paragraph beginning on page 9, line 16, as follows:

9. Base plate 12 has an opening 17 through which first electrode 2 is insertable and receptacle device 23 may be inserted in a form-fitting manner. Electrode 2 together with receptacle device 23 is pushed through this opening 17 until first electrode 2 protrudes out of opening 5 of sheathing 11 on the other end of housing 3. ~~Rubber~~ Sealing projections 41 arranged in outside grooves 40 of receptacle device 23 ensure that first electrode 2 and/or receptacle device 23 will be sealed in recess 17 in base plate 12 provided for this purpose.

Please amend the paragraph beginning on page 9, line 23, as follows:

10. After inserting first electrode 2 together with base plate 12, a groove 60 is formed between receptacle device 23 and base plate 12 in an outer area of recess 17. First an O-ring 61 is inserted into this groove 60 for sealing purposes. Then a fixation/adjusting screw 62 is screwed into a thread provided for this purpose in base plate 12 or receptacle device 23. Alternatively, it would also be conceivable to provide a different type of sealing means, e.g., a latching means, instead of fixation/adjusting screw 62.

Please insert the following paragraph beginning on page 11, line 10:

Accordingly, other embodiments of the invention will be apparent to those skilled in the art from a consideration of the specification or practice of the invention disclosed herein. It is intended that the specification and examples be considered as exemplary only, with the true scope and spirit of the invention being indicated by the following claims.

Please delete pages 12 and 13 in their entirety.